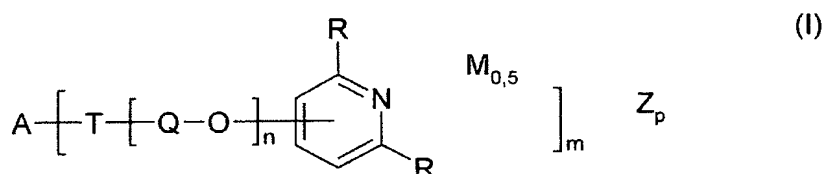


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**Abstract**

In the polymer of transition-metal-bridged units of the formula (I)



where

A is an m-valent organic radical,

T independently of one another are O or NH,

Q independently of one another are  $\text{CHR}^1\text{-CH}_2$  where  $\text{R}^1$  is H or optionally substituted  $\text{C}_{1-6}$ -alkyl,

R independently of one another are H, 2-pyridyl, 2-imidazolyl, 2-imidazolyl, 2-thiazolyl, 2-thiazolyl, 2-pyridazyl, 2-pyrimidyl, carboxyl, carboxylic ester radical, carboxamide radical, carboxylate, phosphonate, where at least one of the radicals R is different from H,

M is  $\text{Fe}^{2+}$ ,  $\text{Fe}^{3+}$ ,  $\text{Co}^{2+}$ ,  $\text{Co}^{3+}$ ,  $\text{Zn}^{2+}$ ,  $\text{Ru}^{2+}$ ,  $\text{Os}^{2+}$ ,  $\text{Ni}^{2+}$ ,

Z is  $\text{SO}_4^{2-}$ ,  $\text{CH}_3\text{OO}^-$ ,  $\text{BF}_4^-$ ,  $\text{SF}_6^-$ ,  $\text{Cl}^-$ ,  $\text{I}^-$ ,  $\text{PF}_6^-$ , perchlorate,

n is 1 to 10 000,

m is 2 to 100,

p is a number which corresponds to the charge balance within the polymer,

the average molecular weight of the polymer is at least 15 000.